DRUG MODEL EXPLORER

ABSTRACT OF THE DISCLOSURE

Computer systems and methods facilitate exploring results of drug candidate modeling. In one embodiment, the software is configured to receive raw data simulated by a probabilistic model of clinical safety, tolerability, and efficacy of a drug candidate. Index information is extracted from the raw data and then referenced to generate a metadata file, the structure of the metadata file explicitly reflecting a hierarchical structure of the model. The metadata file is in turn used to convert the raw data into a binary file, the metadata file explicitly identifying locations within the binary file, of treatment scenario information types and output performance information types. The metadata file is also referenced to generate an interface configured to receive inputs from a non-expert audience, and in turn present relevant subsets of the binary file in a limited number of plot and tabular formats. By standardizing presentation and manipulation of data from different models, software and methods in accordance with the present invention facilitate meaningful interaction between a non-expert audience, and the complex abstract mathematical models predicting drug behavior. The heightened audience-model interaction afforded by the present invention in turn promotes uniform and consistent evaluation of modeled data in the process of drug development.